

Attorney Docket No.: 6072.210-US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Allan Svendsen

Confirmation No: To be assigned

Serial No.: To be assigned

Group Art Unit: To be assigned

Filed: November 16, 2001

Examiner: To be assigned

For: Pullulanase Variants and Methods for Preparing Such Variants With Predetermined Properties

#8/Re
Amend
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PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, DC 20231

Sir:

Before examination, please amend the above-identified application as follows (a marked up version pursuant to 37 C.F.R. 1.21 is attached hereto):

IN THE CLAIMS:

Please cancel claims 11-14, 16-19, and 23-57 without prejudice or disclaimer.

Please substitute the following amended claims for the pending claims having the same claim numbers:

1. (Amended) A method for producing a variant of a parent pullulanase, the variant having at least one altered property as compared to the parent pullulanase, the method comprising:

a) modeling the parent pullulanase on the three-dimensional structure of SEQ ID NO:1 to produce a three-dimensional structure of the parent pullulanase;

b) identifying in the three-dimensional structure obtained in step (a) at least one structural part of the parent pullulanase, wherein an alteration in said structural part is predicted to result in an altered property;

c) modifying the nucleic acid sequence encoding the parent pullulanase to produce a nucleic acid sequence encoding a deletion, insertion, or substitution of one or more amino acids at a position corresponding to said structural part; and

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